

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-42. (Canceled)

43. (Currently amended) A method of constructing a screen comprising:
wrapping a wire substantially helically about a screen body as the screen body rotates and at least one of the wire and screen body is translated substantially parallel to a screen body longitudinal axis;

measuring, automatically, a dimension between adjacent wraps of the wire on the screen body continuously during one or more intervals while wrapping the wire about the screen body; and

adjusting the wrapping of the wire about the screen body to affect the dimension between adjacent wraps of wire on the screen body in relation to the measured dimension between adjacent wraps of the wire on the screen body.

44. (Original) The method of claim 43 further comprising:
measuring a dimension of the wire while wrapping the wire about the screen body; and

adjusting the wrapping of the wire about the screen body to affect the dimension between adjacent wraps of wire on the screen body in relation to the measured dimension of the wire.

45. (Original) The method of claim 44 wherein measuring a dimension of the wire comprises measuring a width of the wire.

46. (Original) The method of claim 43 wherein adjusting the wrapping of the wire about the screen body comprises adjusting at least one of a rate of movement between the screen

body and wire substantially parallel to the screen body longitudinal axis and a rotational rate of the screen body about the screen body longitudinal axis.

47. (Original) The method of claim 46 wherein adjusting the wrapping of the wire about the screen body comprises at least one of increasing the rate of movement and decreasing the rotational rate if the dimension between adjacent wraps of the wire decreases.

48. (Original) The method of claim 46 wherein adjusting the wrapping of the wire about the screen body comprises maintaining the rate of movement and rotational rate substantially constant if a variation in the dimension between adjacent wraps of the wire is less than a specified tolerance.

49. (Original) The method of claim 44 wherein adjusting the wrapping of the wire about the screen body comprises at least one of increasing a rate of movement between the screen body and wire substantially parallel to the screen body longitudinal axis and decreasing a rotational rate of the screen body about the screen body longitudinal axis if the width of the wire increases.

50. (Original) The method of claim 44 wherein adjusting the wrapping of the wire about the screen body comprises maintaining a rate of movement between the screen body and wire substantially parallel to the screen body longitudinal axis and a rotational rate of the screen body about the screen body longitudinal axis substantially constant if a variation in the measured dimension of the wire is less than a specified tolerance.

51. (Original) The method of claim 43 further comprising logging measurements of the dimension between adjacent wraps of the wire.

52. (Original) The method of claim 44 further comprising logging measurements of the measured dimension of the wire.

53. (Original) The method of claim 43 wherein adjusting the wrapping of the wire about the screen body comprises adjusting the wrapping of the wire about the screen body while wrapping the wire about the screen body.

54. (Original) The method of claim 43 further comprising marking the screen while wrapping the wire about the screen body to indicate a variance in the measured dimension between adjacent wraps of the wire.

55. (Original) The method of claim 54 further comprising marking the screen so that a location of the mark substantially coincides with a location of the variance on the screen.

56. (Original) The method of claim 43 comprising measuring a dimension between adjacent wraps with an optical measurement device.

57. (Currently amended) A method of constructing a screen comprising:
wrapping a wire substantially helically about a screen body as the screen body rotates and at least one of the wire and screen body is translated substantially parallel to a screen body longitudinal axis;

measuring, automatically, a dimension of the wire continuously during one or more intervals while wrapping the wire about the screen body; and

adjusting the wrapping of the wire about the screen body to affect the dimension between adjacent wraps of wire on the screen body in relation to the measured dimension of the wire.

58. (Original) The method of claim 57 wherein the measured the dimension of the wire comprises measuring a width of the wire.

59. (Original) The method of claim 57 wherein adjusting the wrapping of the wire about the screen body comprises adjusting at least one of a rate of movement between the screen body and wire substantially parallel to the screen body longitudinal axis and a rotational rate of the screen body about the screen body longitudinal axis.

60. (Original) The method of claim 59 wherein adjusting the wrapping of the wire about the screen body comprises at least one of increasing the rate of movement and decreasing the rotational rate if the dimension of the wire increases.

61. (Original) The method of claim 59 wherein adjusting the wrapping of the wire about the screen body comprises maintaining the rate substantially constant if a variation in the measured dimension of the wire is less than a specified tolerance.

62. (Original) The method of claim 57 further comprising logging measurements of the measured dimension of the wire.

63. (Original) The method of claim 57 further comprising marking the screen during the wrapping of the wire about the screen body to indicate a variance in the dimension of the wire.

64. (Original) The method of claim 57 further comprising marking the screen so that a location of the mark substantially coincides with a location of the variance on the screen.

65. (Original) The method of claim 57 comprising measuring a dimension of the wire with an optical measurement device.

66-76 (Canceled)

77. (Original) A method of constructing a screen, comprising:
wrapping a wire substantially helically about a screen body;
measuring at least one of a dimension between adjacent wraps of wire about the screen body and a dimension of the wrap wire; and
marking the screen while wrapping the wire about the screen body in relation to the measured dimension.

78. (Original) The method of claim 77 comprising marking the screen when a variance in the measured dimension exceeds a specified tolerance.

79. (Original) The method of claim 77 comprising marking the screen with a mark that substantially coincides in location with a location of a variance in the measured dimension on the screen.

80. (Original) The method of claim 77 comprising marking the screen with different marks in relation to the measured dimension.

81. (Original) The method of claim 77 comprising marking the screen with a mark having at least two distinguishable characteristics, wherein a first characteristic is indicative of what measured dimension the mark corresponds to and a second characteristic is indicative of a magnitude of the measured dimension.

82. (Original) The method of claim 81 wherein the first characteristic is a shape of the mark and the second characteristic is a color of the mark.

83. (Original) The method of claim 77 comprising marking the screen with text.

84. (Original) The method of claim 77 comprising adjusting the wrapping of the wrap wire about the screen body to affect the dimension between adjacent wraps of wire about the screen body in relation to the measured dimension.

85. (Original) The method of claim 77 comprising measuring at least one of a dimension between adjacent wraps of wire about the screen body and a dimension of the wrap wire with an optical measurement device.

86. (Original) The method of claim 77 comprising logging the measured dimension.

87-94 (Canceled)

95. (Currently amended) A method of constructing a screen, comprising:
wrapping a wire substantially helically about a screen body; and
measuring, automatically, at least one of a dimension between adjacent wraps of wire about the screen body and a dimension of the wrap wire while the wire is being wrapped substantially helically about the screen body.

96. (Original) The method of claim 95 wherein wrapping the wire substantially helically about the screen body comprises rotating the screen body about a screen body longitudinal axis as the wire is being wrapped substantially helically about the screen body; and
wherein measuring at least one of a dimension between adjacent wraps of wire about the screen body and a dimension of the wrap wire comprises measuring while the screen body is rotating.

97. (Original) The method of claim 95 further comprising logging measurement data.

98. (Original) The method of claim 96 further comprising correlating the measurement data to a length of the screen.

99. (Original) The method of claim 95 further comprising adjusting the wrapping of the wire about the screen body to affect the dimension between adjacent wraps of wire about the

screen body in relation to a measurement of at least one of a dimension between adjacent wraps of wire about the screen body and a dimension of the wrap wire.

100. (Original) The method of claim 95 further comprising marking the screen in relation to a measurement at least one of a dimension between adjacent wraps of wire about the screen body and a dimension of the wrap wire.

101. (Original) The method of claim 95 wherein the dimension of the wrap wire comprises a width of the wrap wire.

102. (Original) The method of claim 95 wherein measuring at least one of a dimension between adjacent wraps of wire about the screen body and a dimension of the wrap wire is measuring with an optical measurement device.